



2546/BGD/SW582

DENDROBIUM PLANT NAMED 'WHITE ANNA'

5 BACKGROUND OF THE INVENTION

The present invention is directed to a new and distinct cultivar of *Dendrobium*, botanically known as *Dendrobium* hybrid, and having the cultivar name 'WHITE ANNA'.

10 The new cultivar was an elite somaclonal variant of *Dendrobium* hybrid 'Anna Bride' (*Dendrobium* Ekapol 'Anna' x *Dendrobium* Shavin White '5N') selected, from approximately 10,000 micropropagated plants of the original cultivar grown for cut – flower production, by the inventor.

Asexual propagation of the new cultivar in Nonthaburi, Thailand by division and micropropagation has demonstrated the uniformity and stability throughout successive
15 generations of this new *Dendrobium*.

SUMMARY OF THE INVENTION

The following traits have been repeatedly recorded in the new cultivar grown under 50% shade condition of a commercial cut flower nursery in Nonthaburi, Thailand
20 with common horticultural practice.

The features that in combination are believed to distinguish 'White Anna' from other known cultivars of *Dendrobium* include : color of petals, sepals and labellum ; round – shape flowers ; long postharvest life ; long inflorescence.

Plants of the new *Dendrobium* can be compared to plants of its original cultivar,
25 the *Dendrobium* hybrid 'Anna Bride' (patent apply – for, Docket number 2546/BGD/SW581). Plants of the new *Dendrobium* differ from plants of the cultivar 'Anna Bride' which is the most resemblance, in the following characteristics

1. The flower of the new *Dendrobium* is white, instead of light purplish pink with white center as found in 'Anna Bride'.

30 The new cultivar has white petals, sepals and labellum whilst its female parent, *D. Ekapol* 'Anna', has pink petals, sepals and labellum. On the other hand, the flowers of the new cultivar has broader petals and rounder shape than its male parent, *D. Shavin White* '5N'.

1 2546/BGD/SW581

BRIEF DESCRIPTION OF ILLUSTRATIONS

5 The accompanying color photographs illustrate the overall appearance of the new cultivar as true in color as possible in color illustration of this type.

Figure 1 is a front and rear view of *Dendrobium* hybrid 'White Anna'.

Figure 2 is an inflorescence of *Dendrobium* hybrid 'White Anna'.

Figure 3 is a front view of *Dendrobium* hybrid 'Anna Bride'.

Figure 4 is an inflorescence of *Dendrobium* hybrid 'Anna Bride'.

10

15

20

25

30

DESCRIPTION OF THE NEW VARIETY

5 The following observations were made of 3 – year old plants of the new variety grown under light shade conditions, in Nonthaburi, Thailand during the months of March through August. Phenotypic expression may vary with environmental, cultural and climatic conditions, as well as differences in conditions of light and medium.

Throughout this specification, color references and / or values are based upon The Royal Horticultural Society Colour Chart (2001 edition) and terminology used in the
10 color descriptions herein refers to plate number in this color chart except where common terms of color definition are employed.

ORINIGINAL CULTIVAR :

15 *Dendrobium* hybrid 'Anna Bride'

PROPAGATION :

By division and micropropagation.

PLANT,

20 Shape : Pseudobulb, cylidrical and upright
Size : Pseudobulb about 50 – 70 cm high ; diameter about 2.0 – 2.5 cm at the age of 2.5 – 3.0 years
Color : Pseudobulb near 143 C
Growth habit : Resulting from branching of rhizome, the new
25 pseudobulb emerges close to the old pseudobulb

FOLIAGE

Leaf
Shape : Lanceolate with an acute apex, an obtuse base and
30 entire margin.
Size : Length about 15 – 20 cm, width about 4.0 – 5.0 cm.

1 2546/BGD/SW582

Surface : Smooth ; upper near 141 A ; lower near 143 B

Aspect : Distichous alternate array on pseudobulb.

5 Leaf sheath : Length about 15 – 20 cm ; near 143 B

INFLORESCENCE From apical and 3rd to 4th axillary buds of pseudobulb ;
16 to 23 flowers.

10 Raceme : Erect, near 144A

Pedunole : Length about 15 – 18 cm ; diameter about 0.35 cm ; near
144A

Rachis : Length about 40 – 45 cm ; diameter about 0.45 cm ; near
144A

15 Flower : Natural spread about 6.5 – 7.2 cm ; vertical length about
5.3 – 5.8 cm ; dorsal sepal about 1.8 to 2.0 cm wide, 3.7
to 3.9 cm long, near N 155 C, abaxil near 155 C, elliptic
with cuspidate tip, entire ; lateral sepals about 1.8 to 2.0
cm wide, 4.5 to 4.7 cm long, near N 155 C, abaxil near
20 oblong with cuspidate tip, entire ; petals about 3.4 to 3.5
cm wide, 3.7 to 3.9 cm long, near N 155 C, abaxil near
155 C, rhombic with acute tip, entire ; labellum about 1.8
to 2.0 cm wide, 4.2 to 4.3 cm long, near 155 C, non –
25 pubescence, trilobed rhombic, no appendage, labellar
gill 5 rows, near 149 D, abaxil near 155 C ; column about
0.63 cm long, diameter about 0.45 cm, near 150 C ; spur
about 1.8 cm long, near 157 D ; pollinia 2 in number,
about 0.1 cm wide and 0.2 cm long, near 7A ; pedicel
about 4.8 – 4.9 cm long, diameter 0.25 cm, near 145 D ;
30 nearly open bud about 1.5 cm wide, about 3.5 cm long,
near 149 C.

1 2546/BGD/SW582

Vase life About 12 – 15 days in water

Disease and pest resistance : none observed

5 Plant of the Dendrobium 'White Anna' is upright and clumping. The inflorescence is long with 16 – 23 flowers, long lasting. Flower is white with light yellowish green gills. Petals overlap sepals.

10

15

20

25

30